TEJUS
CONSULTANTS

GRADATION FOR GSB
(As per MORT&H 400-1,Grading-II)

Name of Work	:	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Date of Testing	:	17-07-2020
Type of Mix	:	GSB
Sample I/D	:	GSB1

Sample Location:	15th Cross, Hegdenagar 2nd main	Date of Sampling:	16-07-2020	
		Date of testing:	17-07-2020	
Type of material & Purpose:	GSB	Oven Dry Wt.(gms):	10000.0	

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
75	0	0	0.00	100.00	-
53	0	0	0.00	100.00	100.00
26.5	2215	2215	22.15	77.85	70-100
9.5	2625	4840	48.40	51.60	50-80
4.75	898	5738	57.38	42.62	40-65
2.36	1214	6952	69.52	30.48	30-50
0.425	1956	8908	89.08	10.92	10-15
0.075	830	9738	97.38	2.62	<5
Pan	262.0				
Total	10000.0				

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A.E.E. (Project)

Authorised Signatory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. P Hemanth (SOORYA CREATERS)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	3rd main road	Date of Sampling	18-07-2020
		Date of Testing	19-07-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	255	255	2.55	97.45	95 - 100
10.00 mm	4825	5080	50.80	49.20	25 - 55
4.75 mm	4228	9308	93.08	6.92	0 - 10
Pan	692	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	3rd main road @ ch.30.00m RHS

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	18-07-2020	13-08-2020	28days	8.135	22500	495	22.00	22.01
2	18-07-2020	13-08-2020	28days	8.142	22500	496	22.04	
3	18-07-2020	13-08-2020	28days	8.144	22500	495	22.00	

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A.E.E. (Project)

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	3rd main road @ ch.30.00m RHS

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	18-07-2020	25-07-2020	7 days	8.135	22500	312	13.87	13.72
2	18-07-2020	25-07-2020	7 days	8.146	22500	304	13.51	
3	18-07-2020	25-07-2020	7 days	8.134	22500	310	13.78	

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri. P Hemanth (SOORYA CREATERS)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE
Sample Location	3rd main road	Date of Sampling	18-07-2020
		Date of Testing	19-07-2020

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	525	525	5.25	94.75	90-100
10.0	4486	5011	50.11	49.89	40-85
4.75	4546	9557	95.57	4.43	0-10
Pan	443	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate M sand)	Proposed Use	concrete
Sample location	3rd main road.	Date of Sampling	18-07-2020
		Date of Testing	19-07-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	206	206	6.87	93.13	90 - 100
2.36 mm	308	514	17.13	82.87	75 - 100
1.18 mm	412	926	30.87	69.13	55 - 90
0.600 mm	486	1412	47.07	52.93	35 -59
0.300 mm	762	2174	72.47	27.53	8-30
0.150 mm	640	2814	93.80	6.20	0 - 10
Pan	186	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	3rd main road.	Date of Sampling	18-07-2020
Period of Soaking	24 hours	Date of Testing	19-07-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	648	678	658	
B	Weight of oven - dry sample gm.	641	670	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1701	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.659	2.667	**2.662**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.092	1.194	1.543	**1.276**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	Fine aggregate M sand)		Proposed Use	concrete
Sample location	3rd main road.		Date of Sampling	18-07-2020
			Date of Testing	19-07-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	206	206	6.87	93.13	90 - 100
2.36 mm	308	514	17.13	82.87	75 - 100
1.18 mm	412	926	30.87	69.13	55 - 90
0.600 mm	486	1412	47.07	52.93	35 -59
0.300 mm	762	2174	72.47	27.53	8-30
0.150 mm	640	2814	93.80	6.20	0 - 10
Pan	186	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS
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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	2nd main road.	Date of Sampling	18-07-2020
Period of Soaking	24 hours	Date of Testing	19-07-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	648	678	658	
B	Weight of oven - dry sample gm.	641	670	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1701	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.659	2.667	2.662
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.092	1.194	1.543	1.276

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Test Report on Cement

Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	18-07-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	111Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	496 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	8 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight in gm	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			Proposed Use	PCC
Sample Location	2nd cross road.			Date of Sampling	19-07-2020
				Date of Testing	20-07-2020
IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	88	88	2.93	97.07	95-100
20.00mm	1444	1532	51.07	48.93	30-70
10.00mm	972	2504	83.47	16.53	10-35
4.75mm	460	2964	98.80	1.20	0-5
Pan	36	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	Fine aggregate (M sand)	Proposed Use	PCC	
Sample Location	2nd main road.	Date of Sampling	19-07-2020	
		Date of Testing	20-07-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
4.00 mm	0	0	0	100.00	100
4.75 mm	226	226	7.53	92.47	90 - 100
2.36 mm	325	551	18.37	81.63	75 - 100
1.18 mm	412	963	32.10	67.90	55 - 90
0.600 mm	485	1448	48.27	51.73	35 -59
0.300 mm	742	2190	73.00	27.00	8-30
0.150 mm	636	2826	94.20	5.80	0 - 10
Pan	174	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Location/Source	2nd main road.	Date of Sampling	19-07-2020
Period of Soaking	24 hours	Date of Testing	20-07-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		643	653	666	
B	Weight of oven - dry sample gm.		635	644	656	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1680	1685	1694	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.668	2.650	2.656	2.658
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.260	1.398	1.524	1.394

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Test Report on Compressive strength of Solid Block

Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Cross sectional area	80000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	02-08-2020	03-08-2020	80000	407.00	5.09	5.05	5.00
2	02-08-2020	03-08-2020	80000	401.00	5.01		
3	02-08-2020	03-08-2020	80000	404.00	5.05		

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri. P Hemanth (SOORYA CREATERS)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE	
Sample Location	3rd main road	Date of Sampling	03-08-2020	
		Date of Testing	04-08-2020	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	516	516	5.16	94.84	90-100
10.0	4598	5114	51.14	48.86	40-85
4.75	4445	9559	95.59	4.41	0-10
Pan	441	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. P Hemanth (SOORYA CREATERS)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	3rd main road	Date of Sampling	03-08-2020
		Date of Testing	04-08-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	265	265	2.65	97.35	95 - 100
10.00 mm	4938	5203	52.03	47.97	25 - 55
4.75 mm	4235	9438	94.38	5.62	0 - 10
Pan	562	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Sample Location	3rd main road	Date of Sampling	03-08-2020
		Date of Testing	04-08-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	224	224	7.47	92.53	90 - 100
2.36 mm	322	546	18.20	81.80	75 - 100
1.18 mm	422	968	32.27	67.73	55 - 90
0.600 mm	485	1453	48.43	51.57	35 -59
0.300 mm	714	2167	72.23	27.77	8-30
0.150 mm	646	2813	93.77	6.23	0 - 10
Pan	187	3000			-

Remarks : Satisfactory / Not Satisfactory

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

TEJUS CONSULTANTS

Authorised Signatory

A.E.E. (Project)

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	3rd main road	Date of Sampling	03-08-2020
Period of Soaking	24 hours	Date of Testing	04-08-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	652	649	657	
B	Weight of oven - dry sample gm.	640	643	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1683	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.612	2.668	2.678	2.653
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.875	0.933	1.389	1.399

Note:

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A.E.E. (Project)

Test Report on Cement

TEJUS CONSULTANTS

Project	Construction of CC Drains and Roads in Saripalya Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	03-08-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	112 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	387 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	8 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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TEJUS CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Name of Work	:	Construction of CC Drains and Roads in Saripalya Village in Ward No.06.
No. of Sample Tested	:	3
Date of Testing	:	05-08-2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20_100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.452	2557.80	1.80	0.960	39.46	20.10	21.70	20.84	26.05
2	50.00	90.00	0.461	2608.73	1.80	0.960	39.45	20.09	21.70	20.83	26.04
3	50.00	90.00	0.452	2557.80	1.80	0.960	39.52	20.13	21.74	20.87	26.09

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A.E.E. (Project)

TEJUS CONSULTANTS

Consultant's Representative